Fig.1

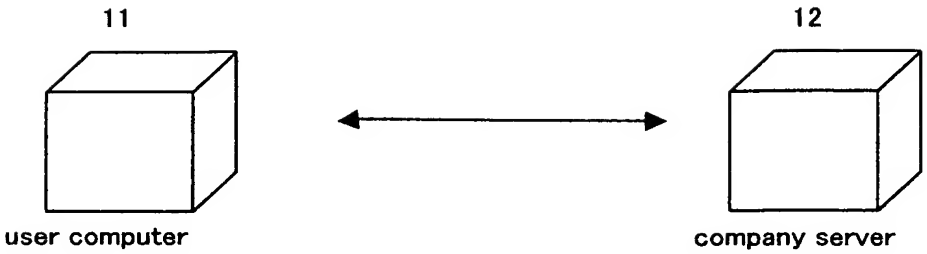

11
12
user computer
company server

Fig.2

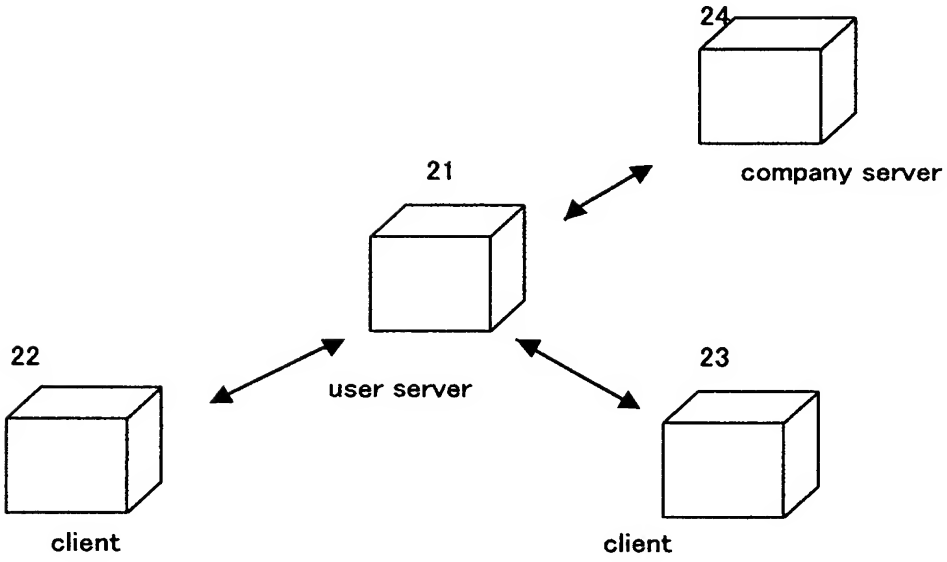

24
company server
21
22
user server
23
client
client

Fig.3

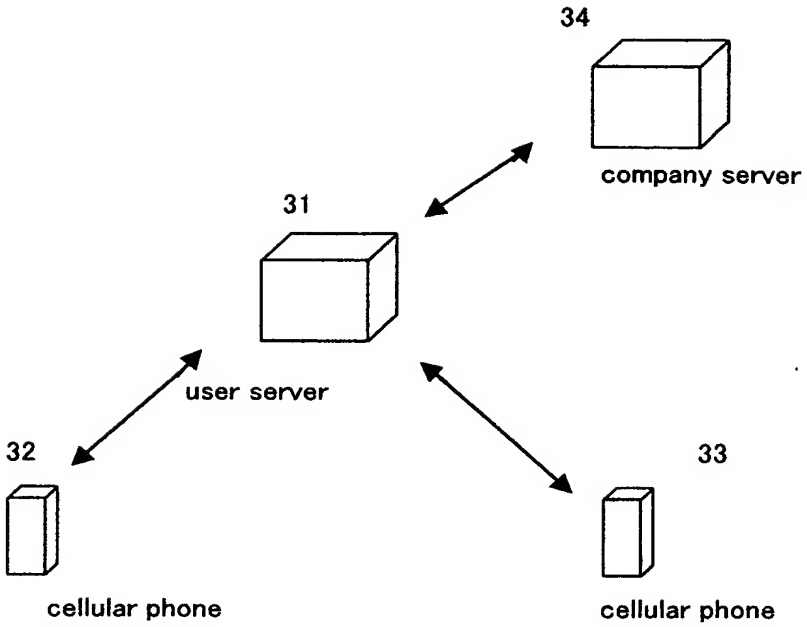

34
company server
31
user server
32
33
cellular phone
cellular phone

Fig.4

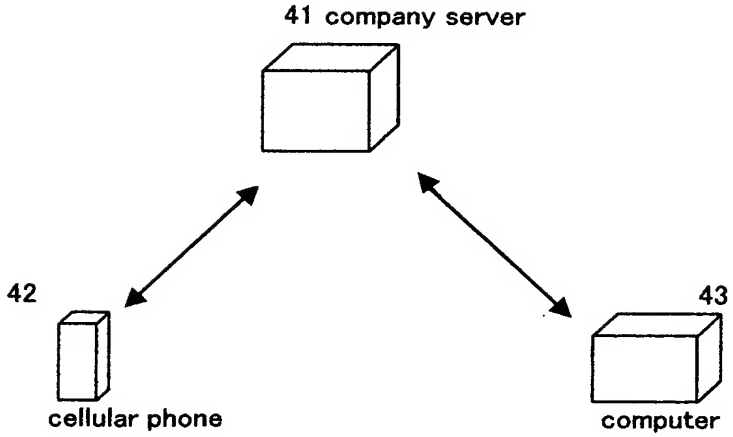

41 company server
42
43
cellular phone
computer

Fig.5

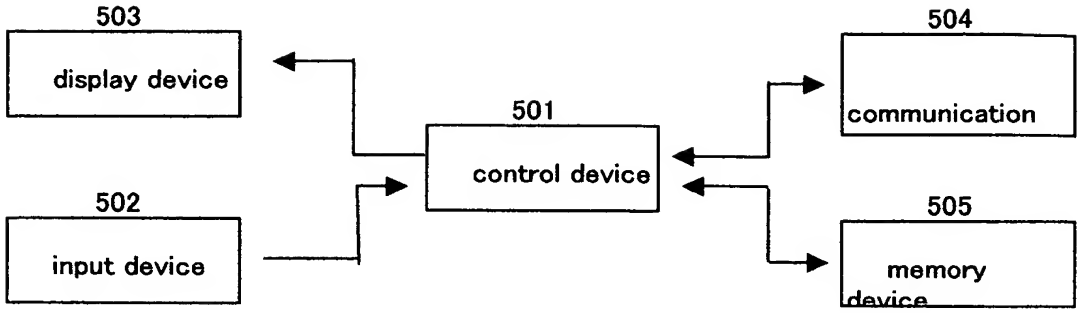

503
display device
502
input device
501
control device
504
communication
505
memory device

Fig.6

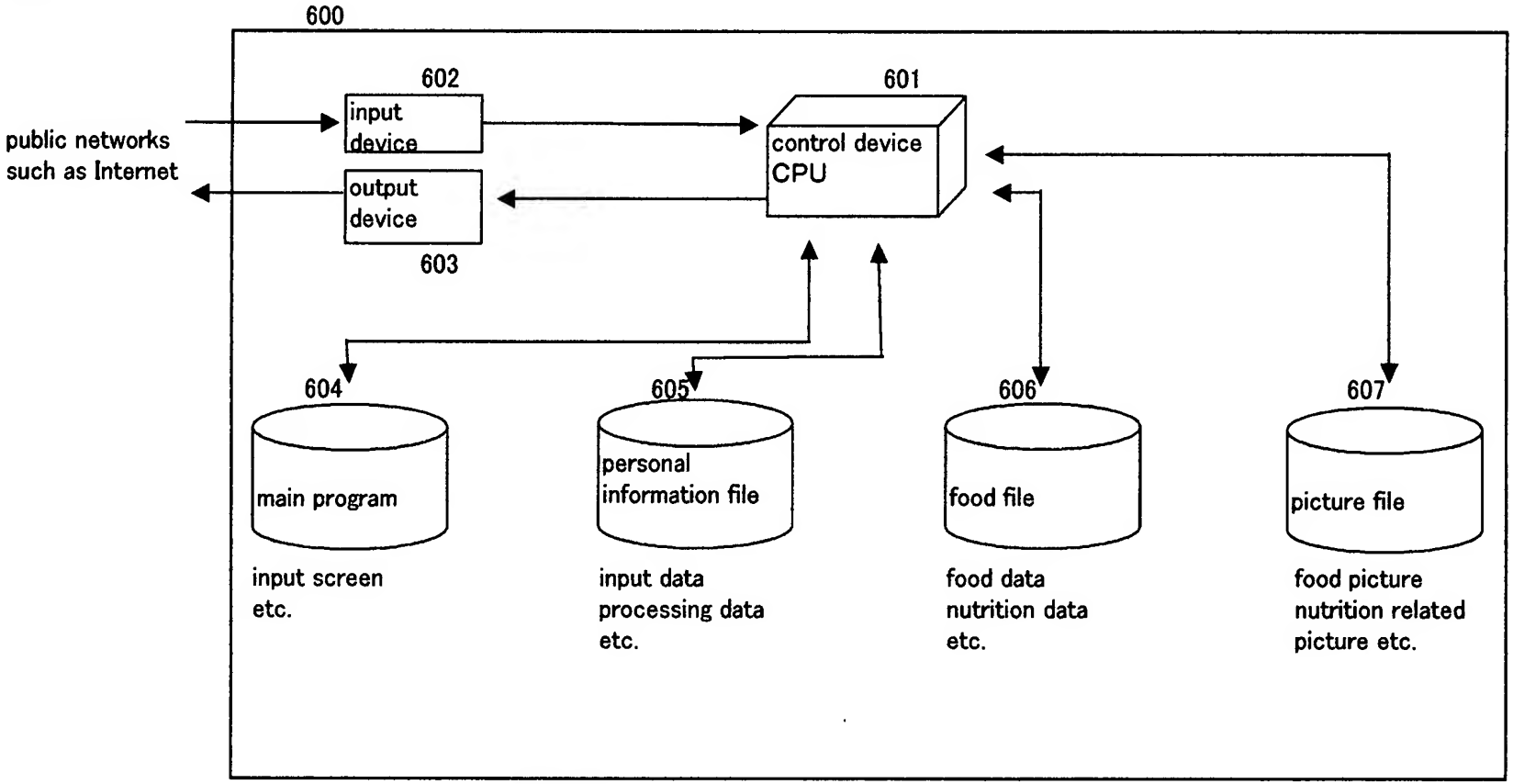

600
602
601
input device
control device CPU
public networks such as Internet
output device
603
604
605
606
607
main program
personal information file
food file
picture file
input screen etc.
input data processing data etc.
food data nutrition data etc.
food picture nutrition related picture etc.

Fig.7

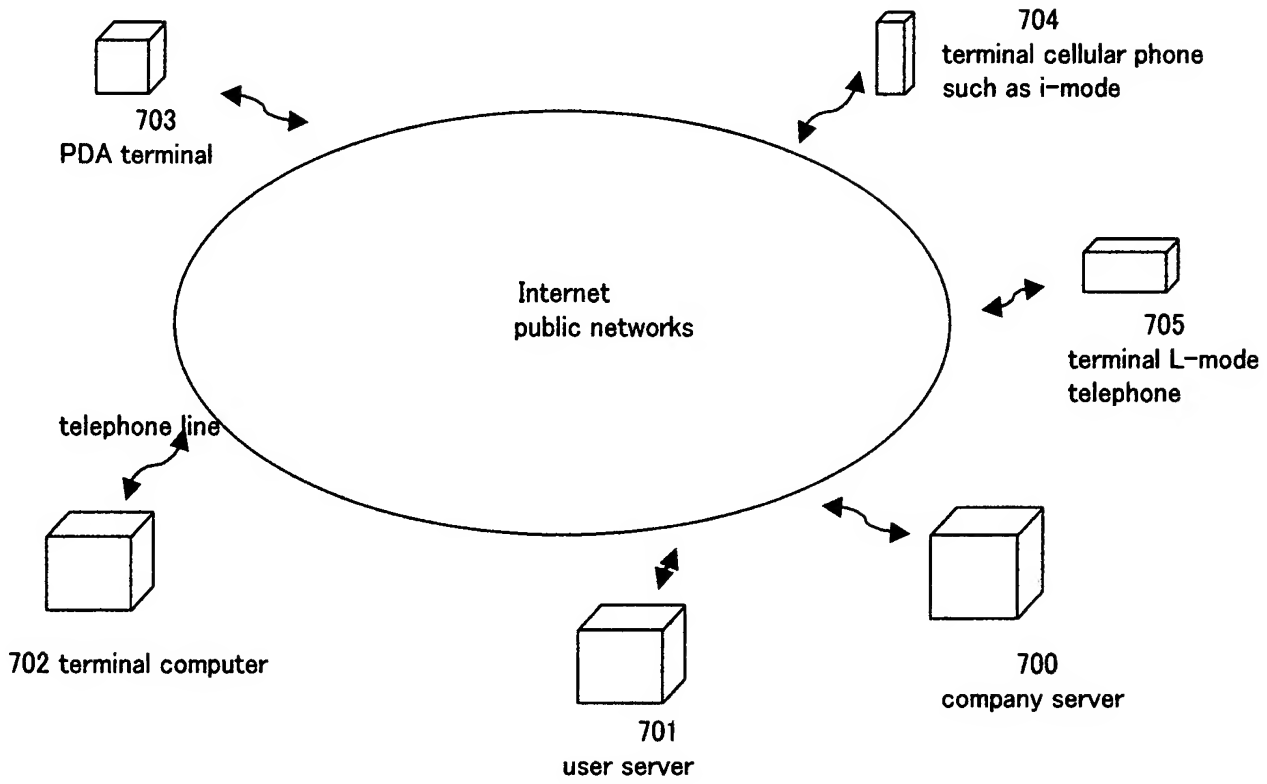

703
PDA terminal
704
terminal cellular phone
such as i-mode
Internet
public networks
705
terminal L-mode
telephone
telephone line
702 terminal computer
701
user server
700
company server

Fig.8

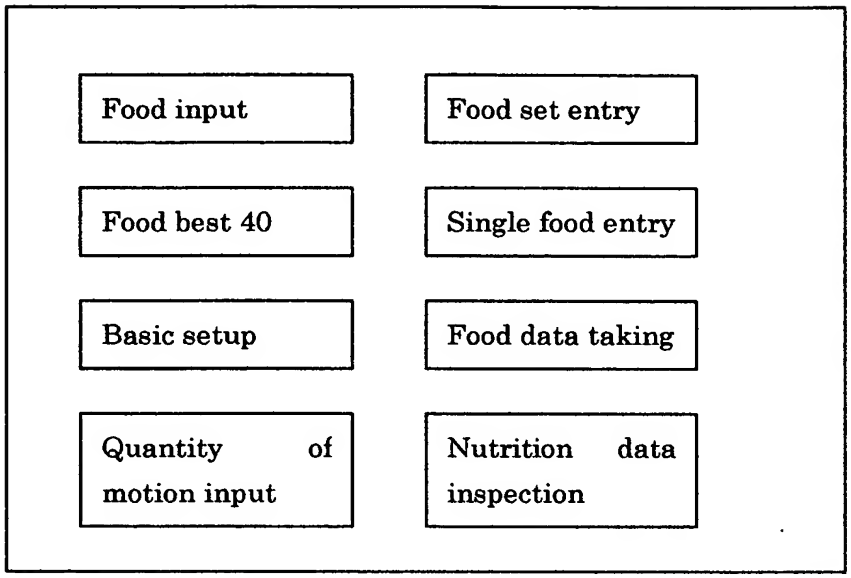

Food input
Food set entry
Food best 40
Single food entry
Basic setup
Food data taking
Quantity of motion input
Nutrition data inspection

Fig.9

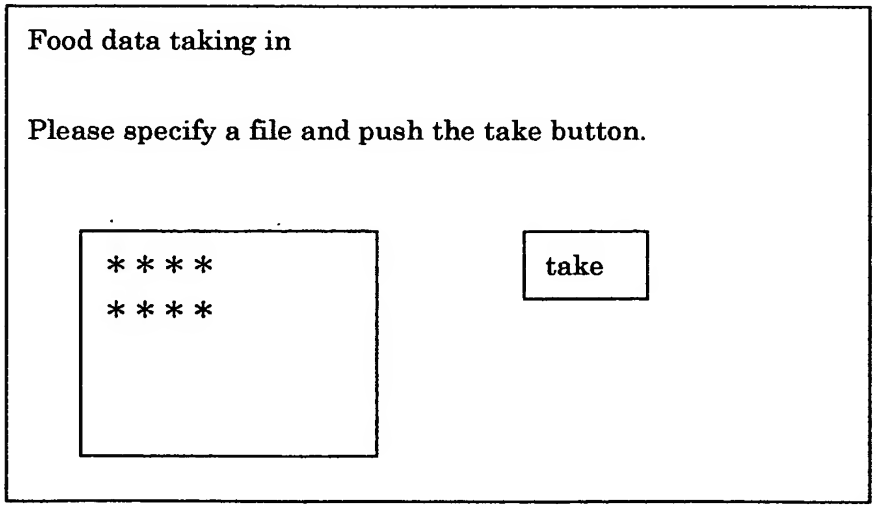

Food data taking in
Please specify a file and push the take button.
* * * *
* * * *
take

Fig.10 food selection

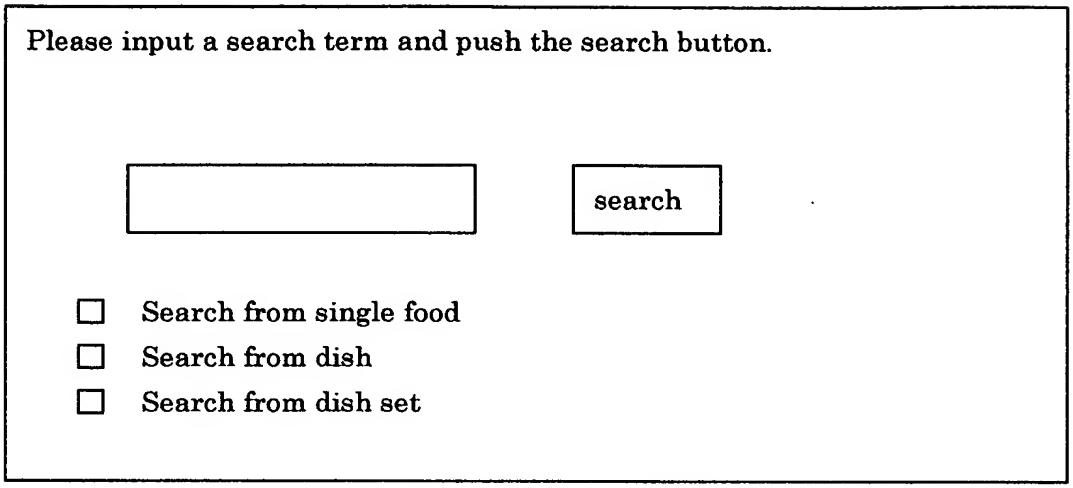


Fig.11

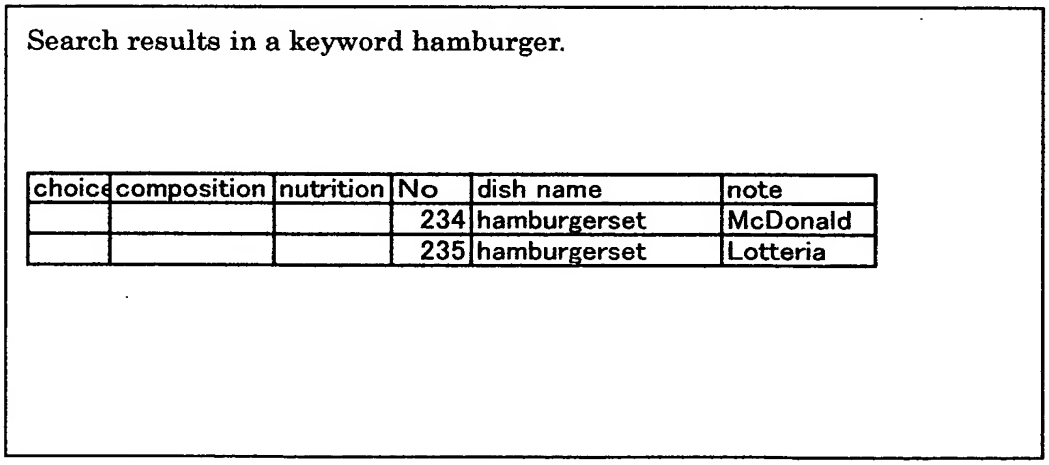


Fig.12

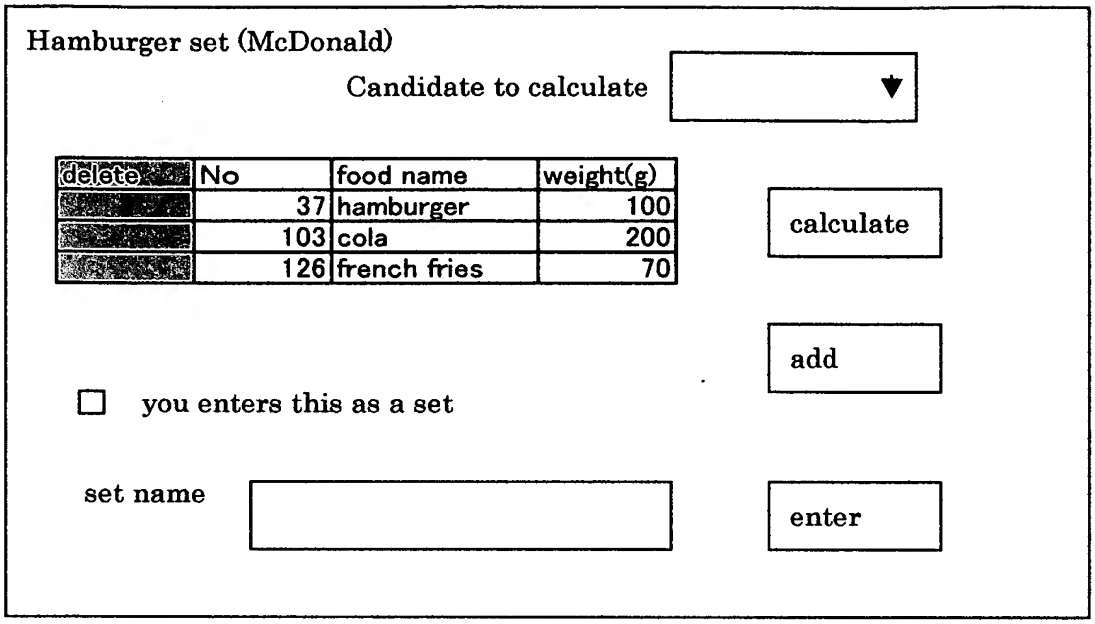

Hamburger set (McDonald)
Candidate to calculate
delete
No
food name
weight(g)
37
hamburger
100
103
cola
200
126
french fries
70
calculate
add
you enters this as a set
set name
enter

Fig.13

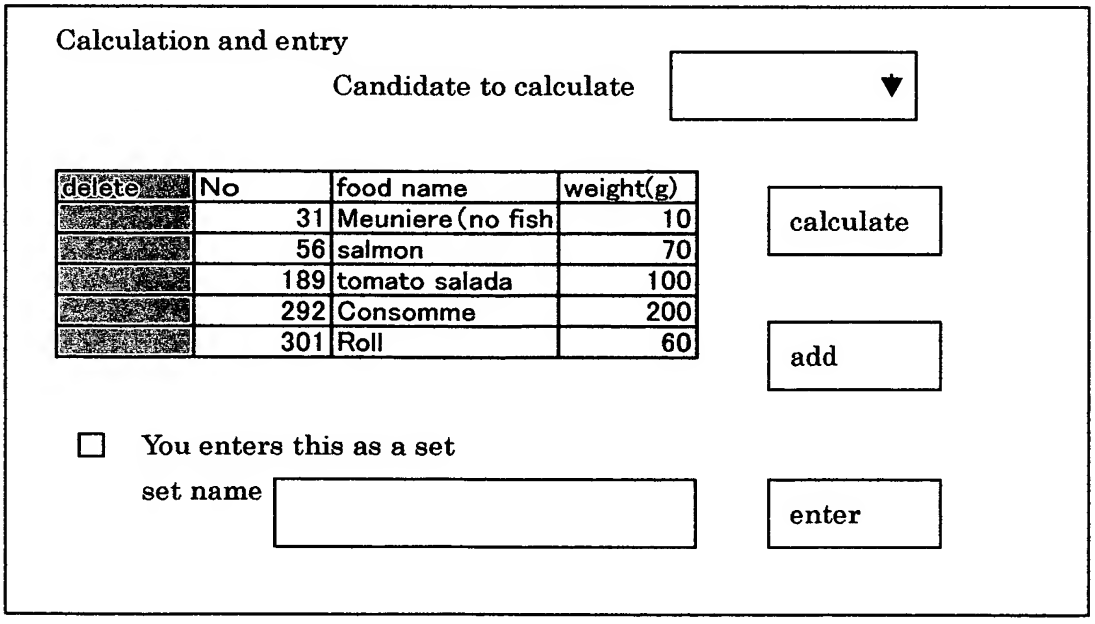
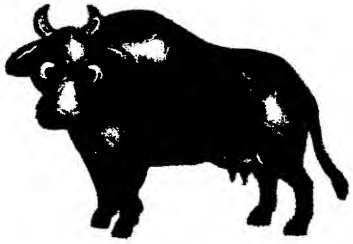

Calculation and entry
Candidate to calculate
delete
No
food name
weight(g)
31
Meuniere (no fish
10
56
salmon
70
189
tomato salada
100
292
Consomme
200
301
Roll
60
calculate
add
You enters this as a set
set name
enter

Fig.14

Fig.15

Fig.16

Result and picture



nutrient	little	food	condition	picture
vitamin A(IU)	-300	liver,eel	depilation	bold head
calcium(g)	-0.1	milk,sardine	cavity	dairy cow

Fig.17 an example of nutrients,its effects and related pictures

nutrient	influence on the body depended insufficient		the effect by adequate intake		typical food
	text representation	image representation	text representation	image representation	image representation
vitamin A	depilation,cancer,cold	bald head	failure of eyesight prevention healty membrane	healthy eye	liver,eel
vitamin B1	strained back motive,breathlessness	a person with the painful waist	better appetite,moral stability	healthy eye and heart	pig,bread
vitamin B2	congestion of an eye spot of a nose	spot of nose	promotion of growth	healthy hair fine cell	liver,mackerel
vitamin C	stain of a face ,freckle bleeding of the gum,cancer	a person who caught cold	the tension of skin is good cold and cancer prevention	the person who removed the cold mask	strawberry,lemon
sodium	headache,giddiness fall of muscular power	picture of headache	gigestive promotion	fine stomach	Consomme,sauce
potassium	enervation,tired out in summer dropsy,heart failure	weakened heart	normal muscles normal blood pressure	fine kidney	potato,spinach
calcium	rachitis,bony softening numbness of hand and foot	weakened skelton	strong bone	dogged Mr.Skelton	sardine,cheese,milk
iron	anemia	bad conplexion bleeding of the gum	oxyecoia supply	an iron lump,rail etc. Mr.O2(oxyecoia)	hard clam edible brown algae
fiber	canstipation,cavity	cavity bacillus mutant	geriatric diseases prevention natural healing energy	good bacillus	legumes,pumpkin
lipid	intracerebral bleeding	weak cell	strong cell membrane	Mr.Cell attached armor	olive,butter
protain	decline of sex power	broken heart	cerebral activity,strong muscles moral stability	muscle man Mr.Protein	milk,egg,beans
non-fibross carbohydrates	shortage of energy	weak runner	energy source	fine runnner	wheat,spaghetti,rice

Fig.18

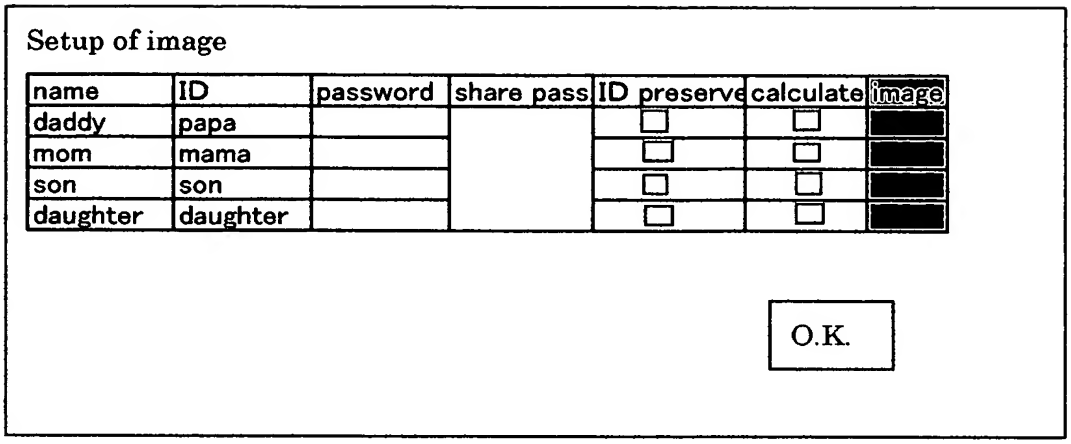

Setup of image
name
ID
password
share pass
ID preserve
calculate
image
daddy
papa
mom
mama
son
son
daughter
daughter
O.K.

Fig.19

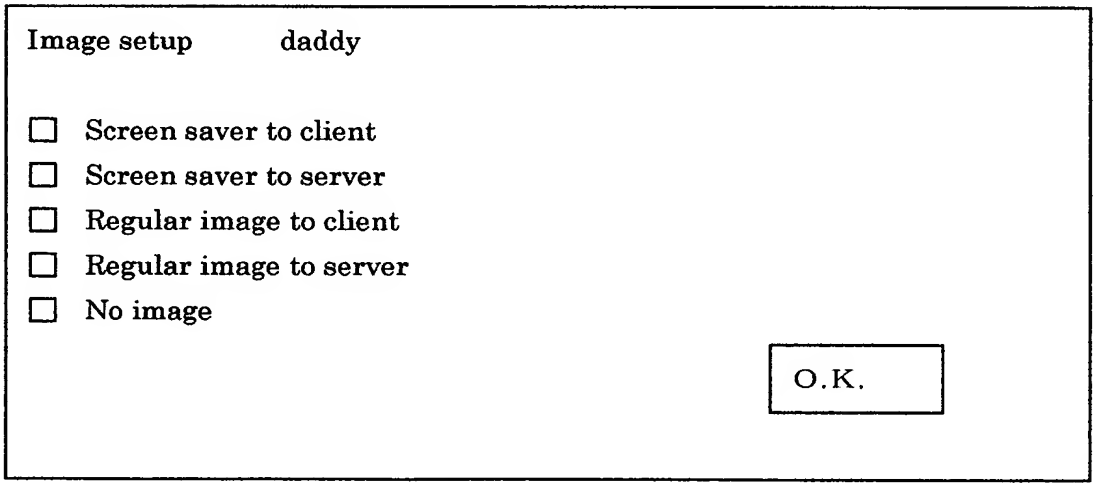


Image setup daddy
Screen saver to client
Screen saver to server
Regular image to client
Regular image to server
No image
O.K.

Fig.20

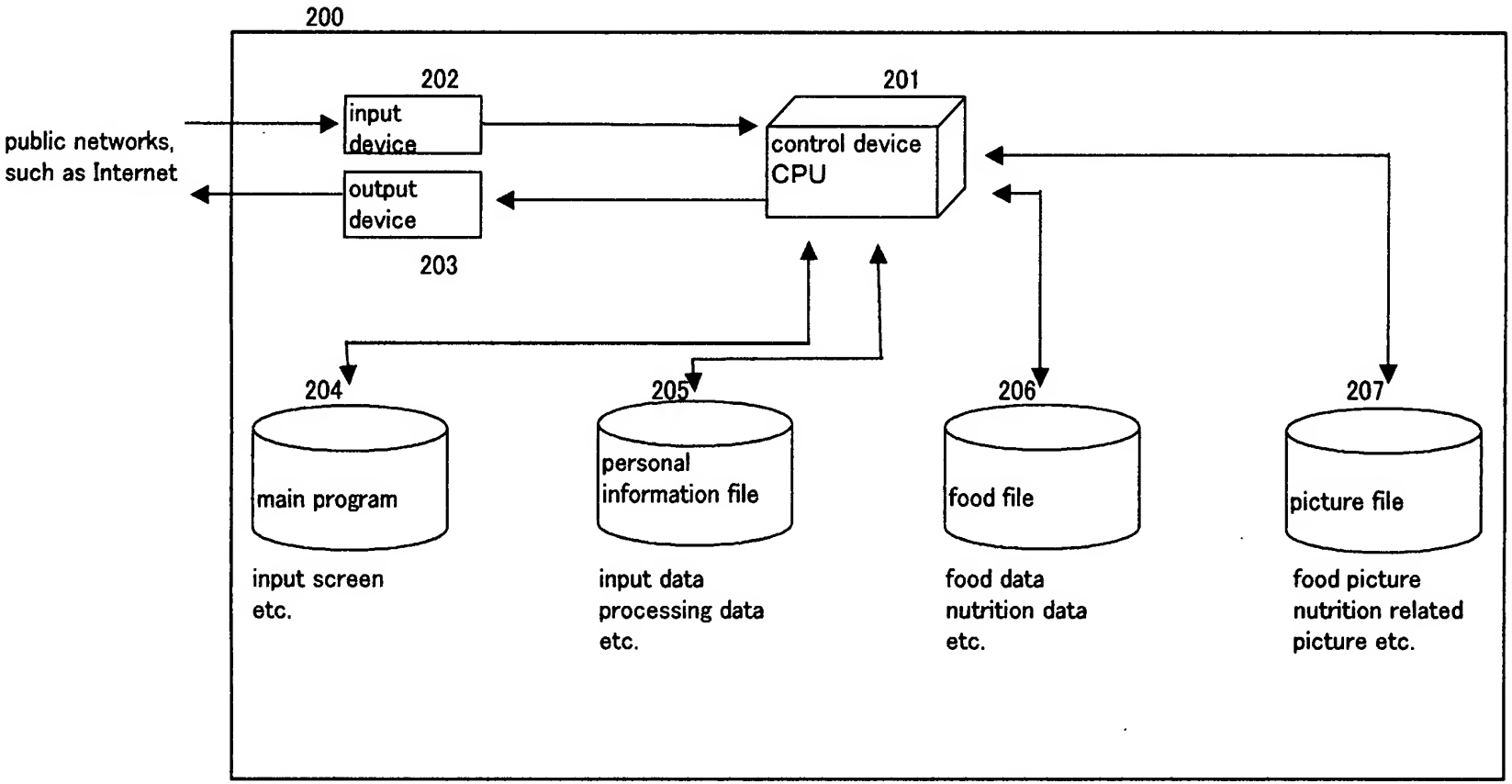

200
202
input device
201
control device CPU
public networks, such as Internet
output device
203
204
205
206
207
main program
personal information file
food file
picture file
input screen etc.
input data processing data etc.
food data nutrition data etc.
food picture nutrition related picture etc.

Fig.21

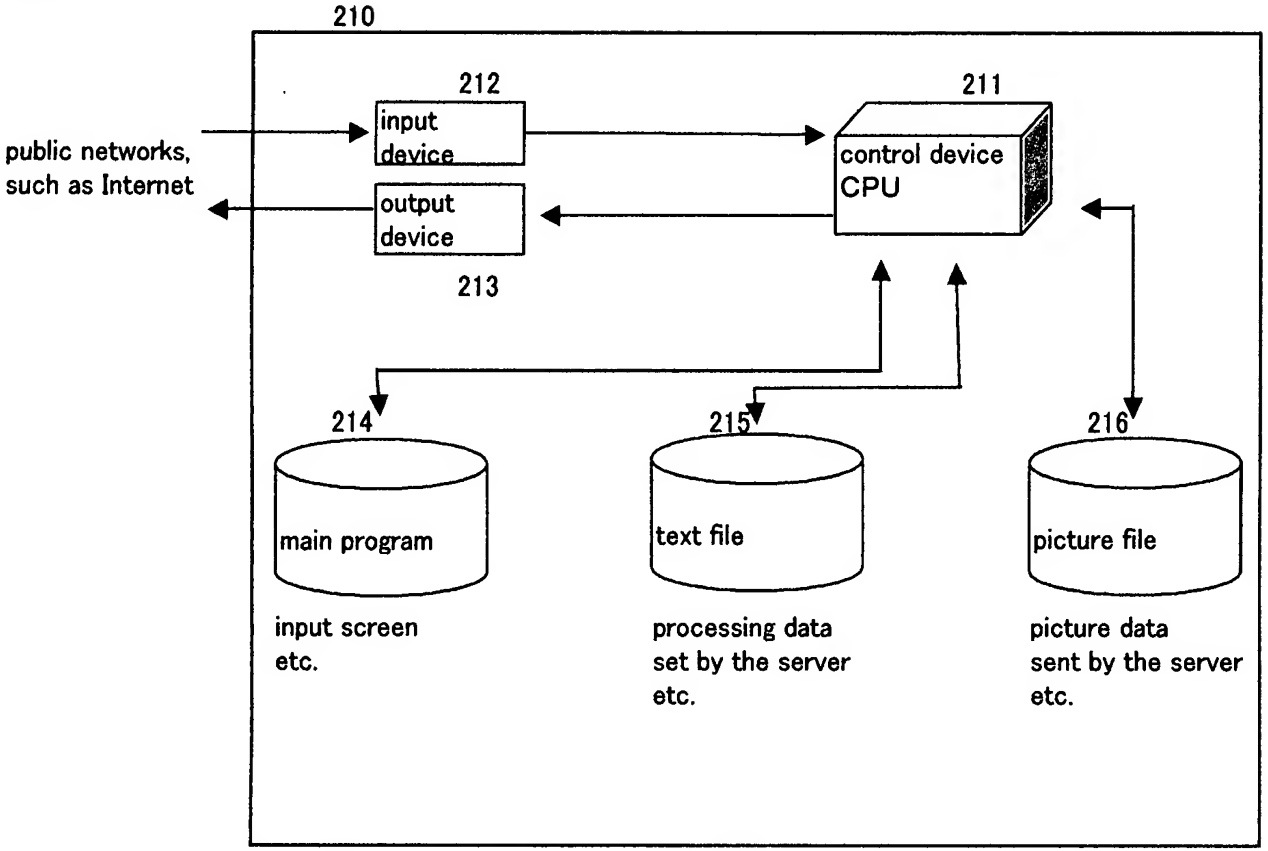

210
212
211
input device
control device CPU
public networks, such as Internet
output device
213
214
215
216
main program
text file
picture file
input screen etc.
processing data set by the server etc.
picture data sent by the server etc.

Fig.22

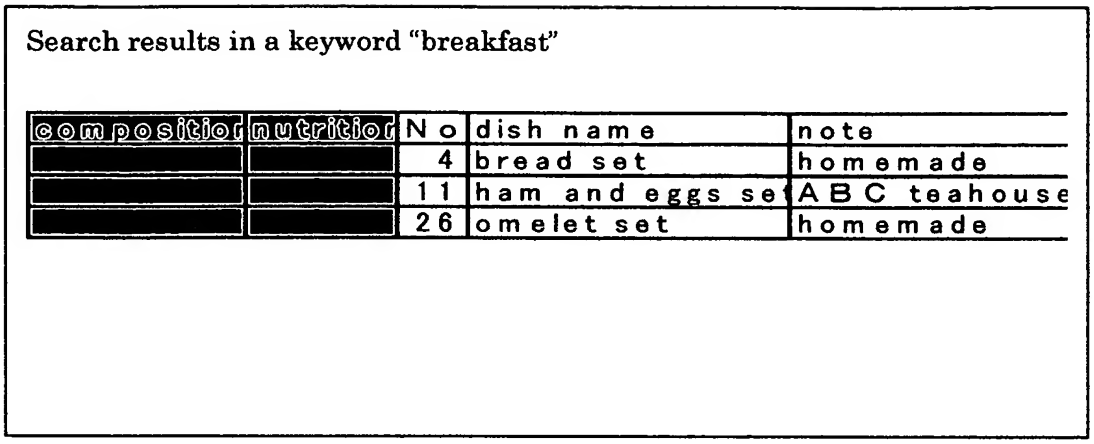

Search results in a keyword "breakfast"
composition
nutrition
No
dish name
note
4
bread set
homemade
11
ham and eggs se
ABC teahouse
26
omelet set
homemade

Fig.23

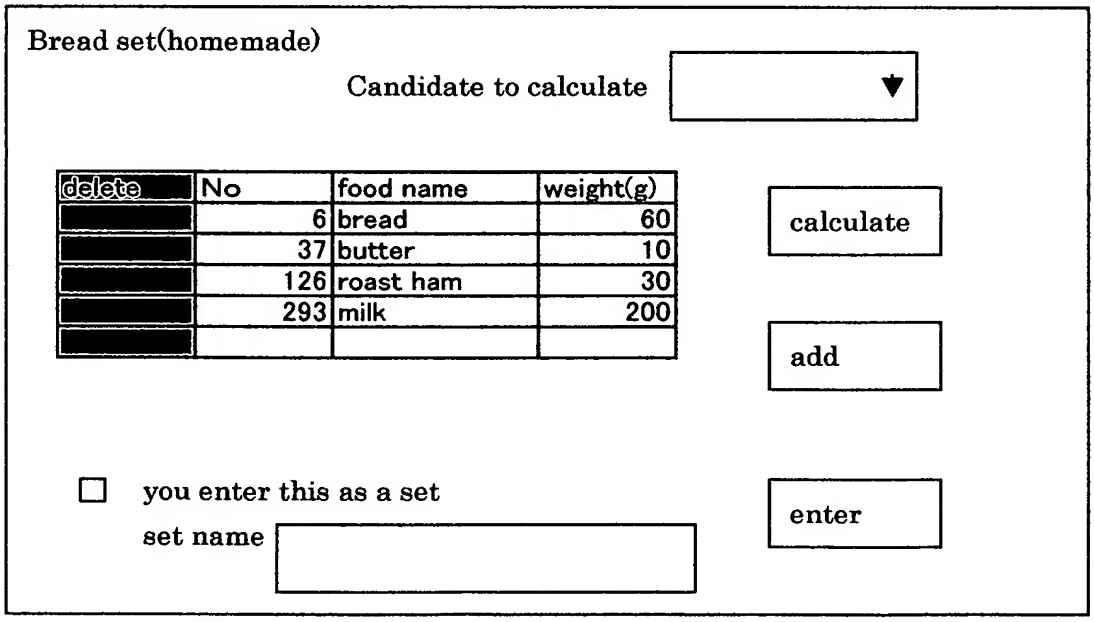

Bread set(homemade)
Candidate to calculate
delete
No
food name
weight(g)
6
bread
60
37
butter
10
126
roast ham
30
293
milk
200
calculate
add
you enter this as a set
set name
enter

Fig.24

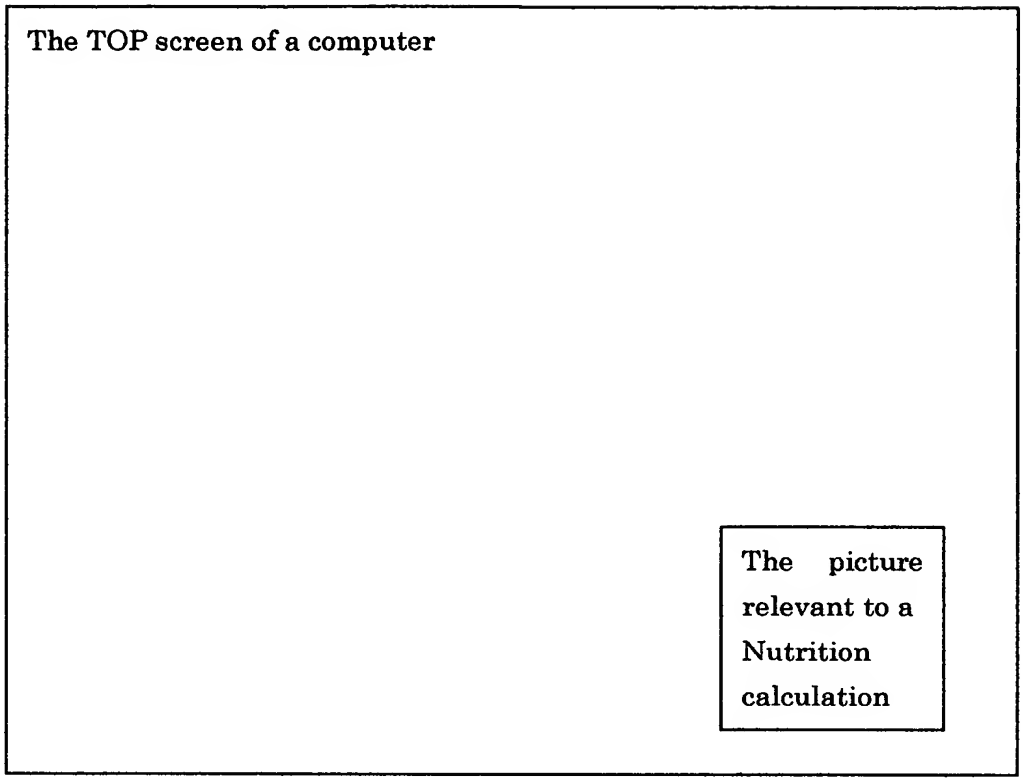

The TOP screen of a computer
The picture relevant to a Nutrition calculation

Fig.25

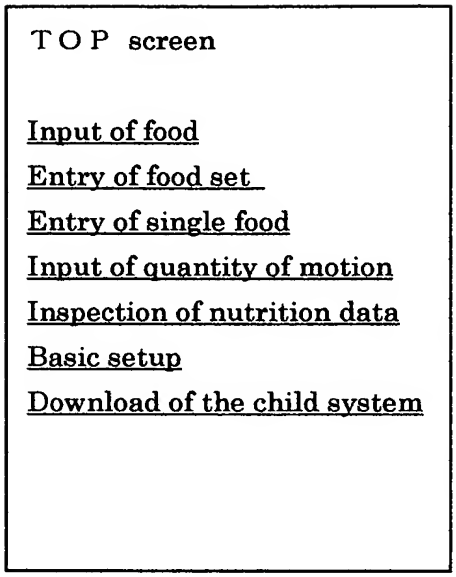


Fig.26

The screen in the cellular phone of Fig.22

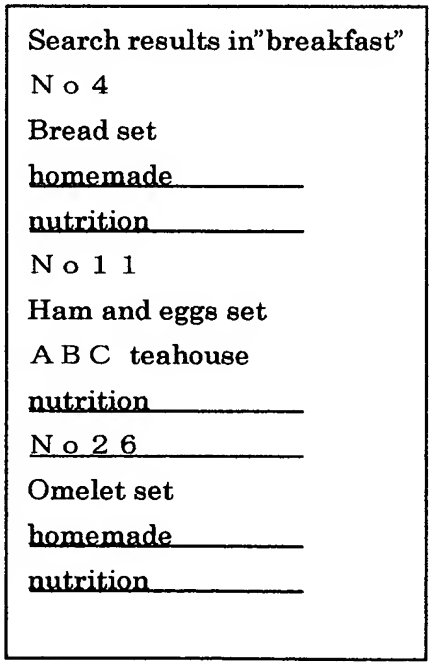


Fig.27

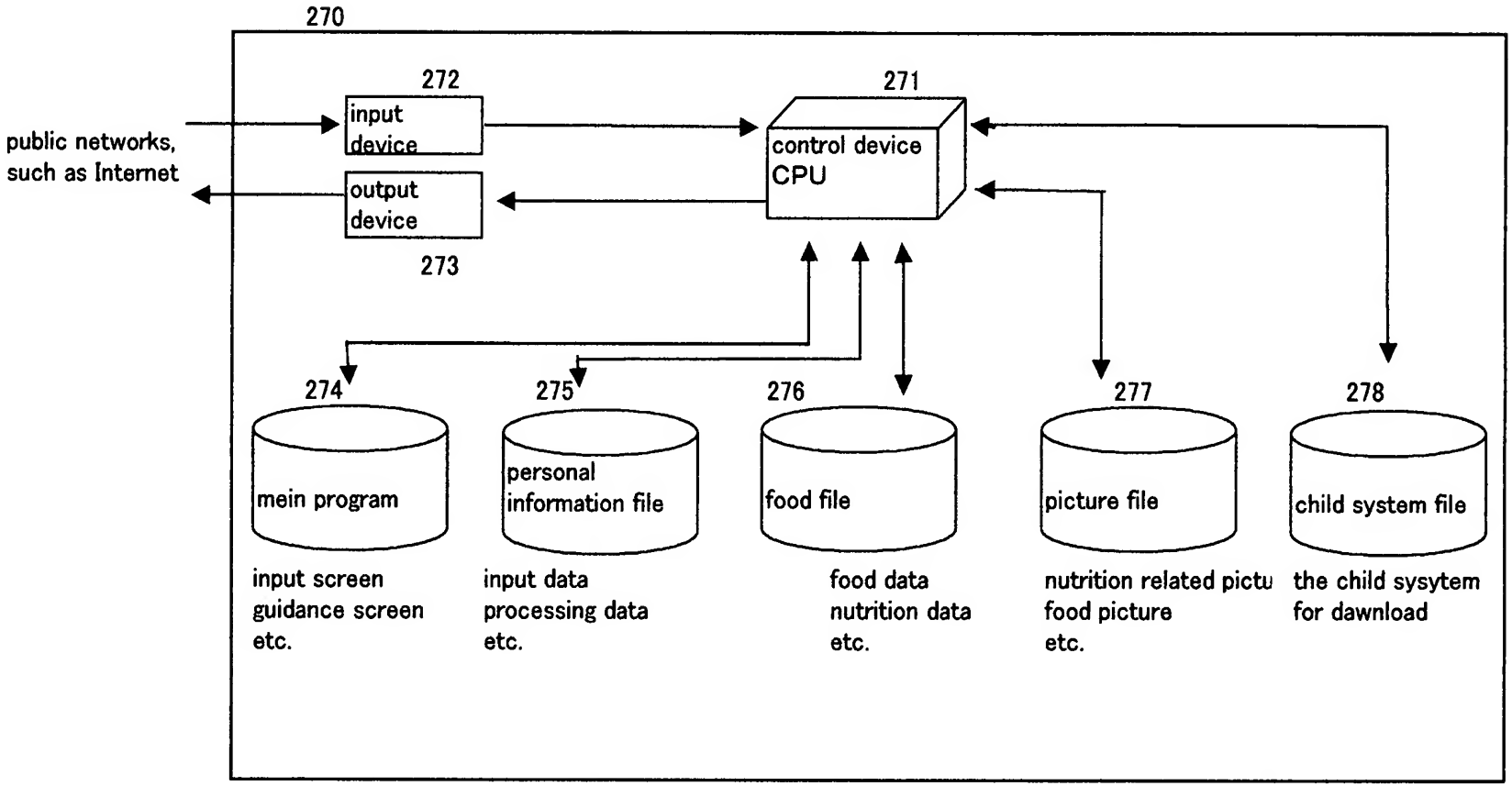

270
272
271
public networks,
such as Internet
input
device
control device
CPU
output
device
273
274
275
276
277
278
mein program
personal
information file
food file
picture file
child system file
input screen
guidance screen
etc.
input data
processing data
etc.
food data
nutrition data
etc.
nutrition related pictu
food picture
etc.
the child sysytem
for dawnload

Fig.28

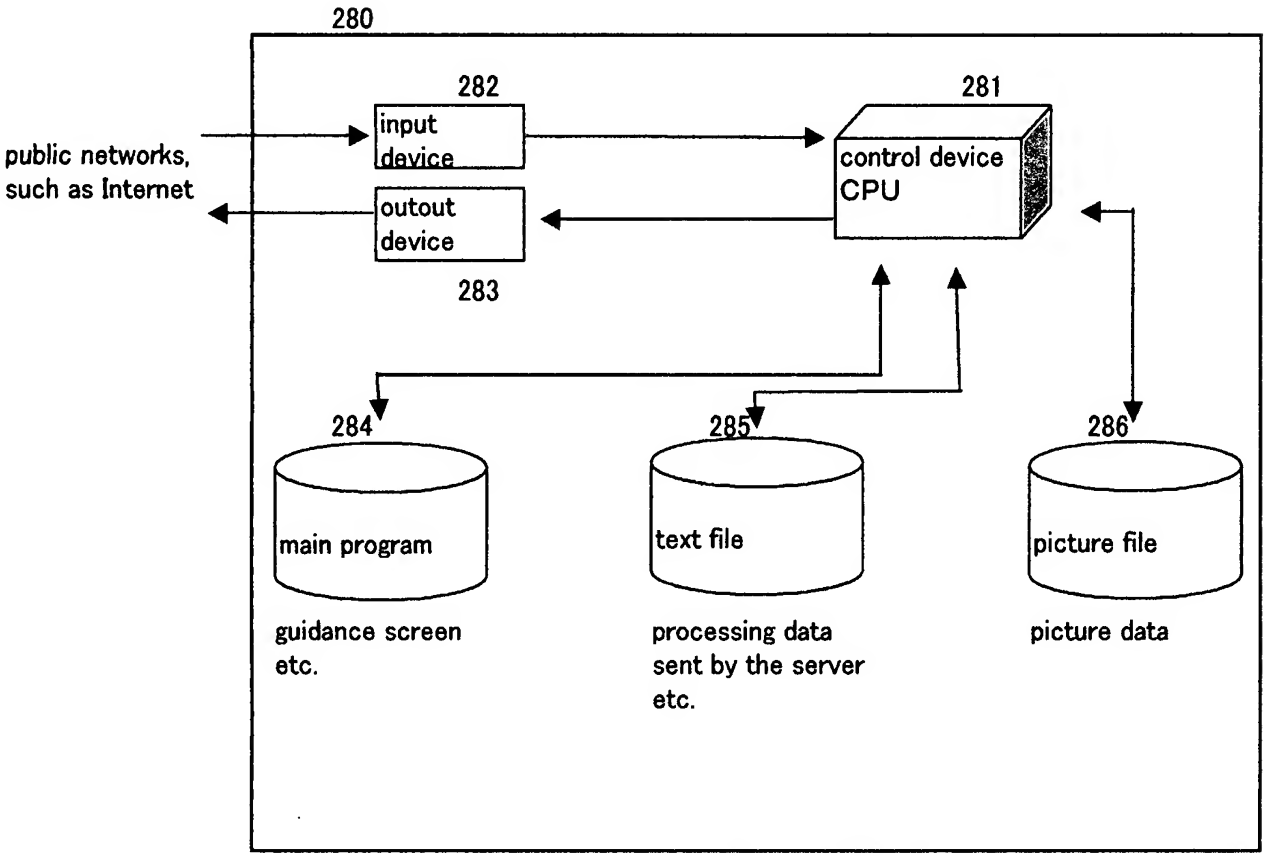

280
282
281
input device
control device CPU
public networks, such as Internet
outout device
283
284
285
286
main program
text file
picture file
guidance screen etc.
processing data sent by the server etc.
picture data

Fig.29

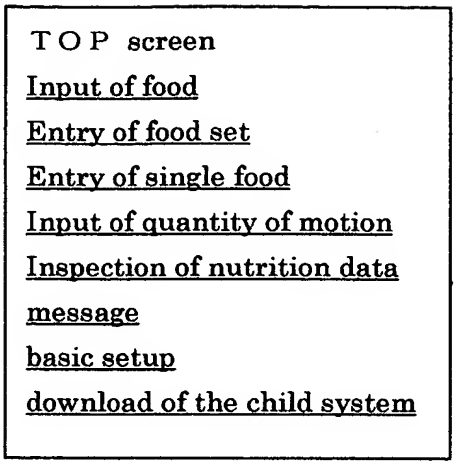


Fig.30

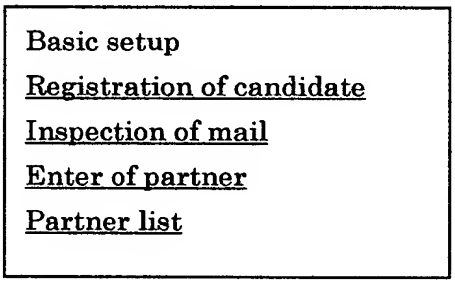


Fig.31

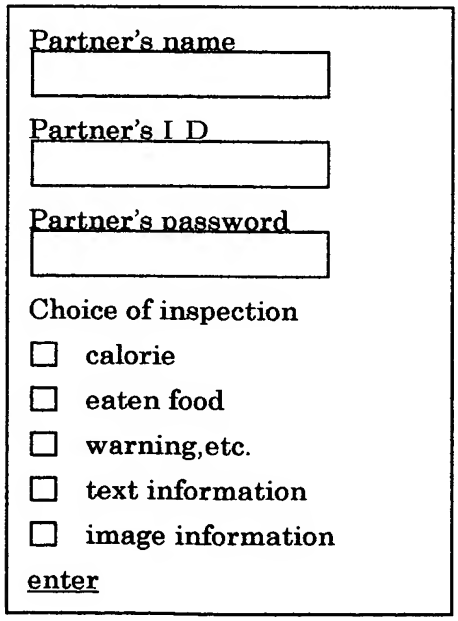


Fig.32

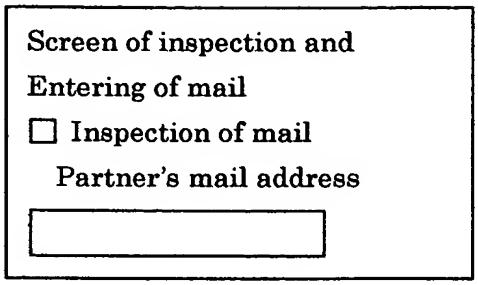


Fig.33

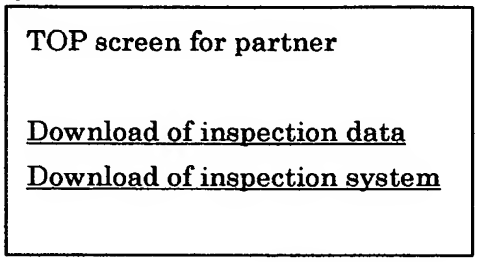


Fig.34

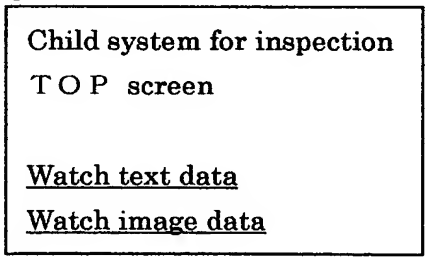


Fig.35

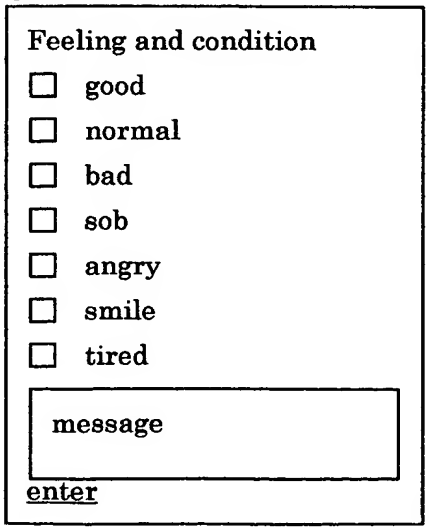
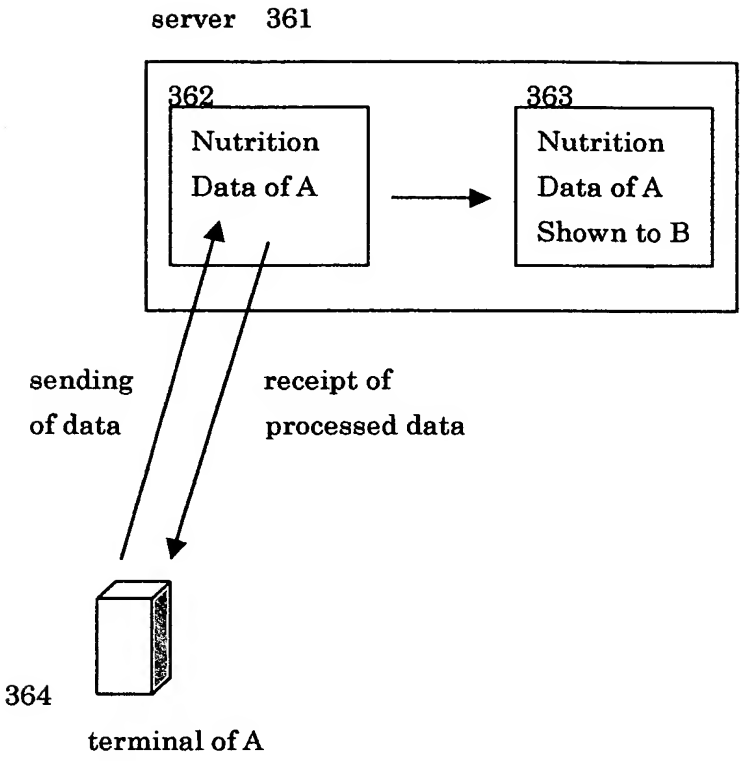


Fig.36

(a)


server 361
362
Nutrition
Data of A
363
Nutrition
Data of A
Shown to B
sending
of data
receipt of
processed data
364
terminal of A

(b)

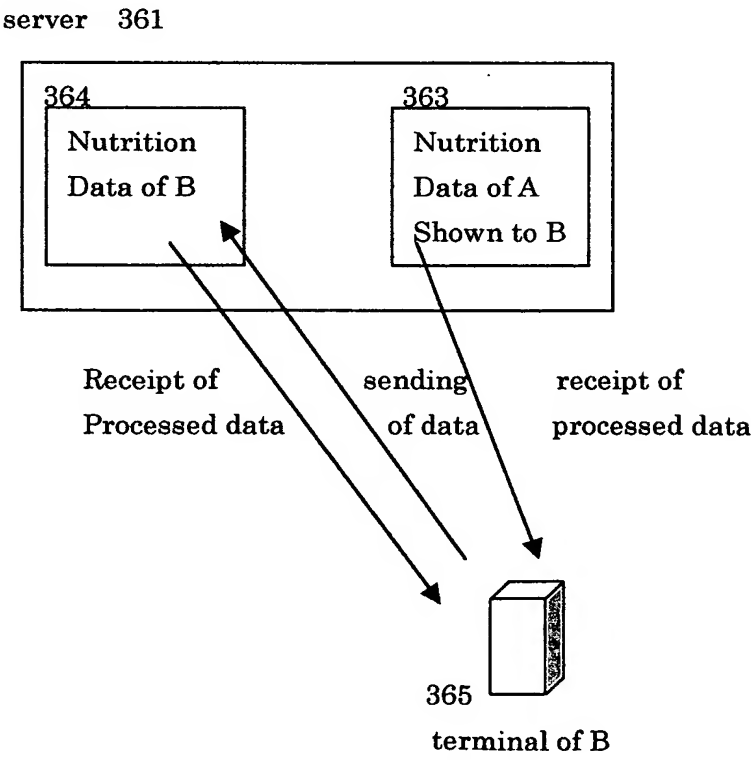

server 361
364
Nutrition
Data of B
363
Nutrition
Data of A
Shown to B
Receipt of
Processed data
sending
of data
receipt of
processed data
365
terminal of B

Fig.37

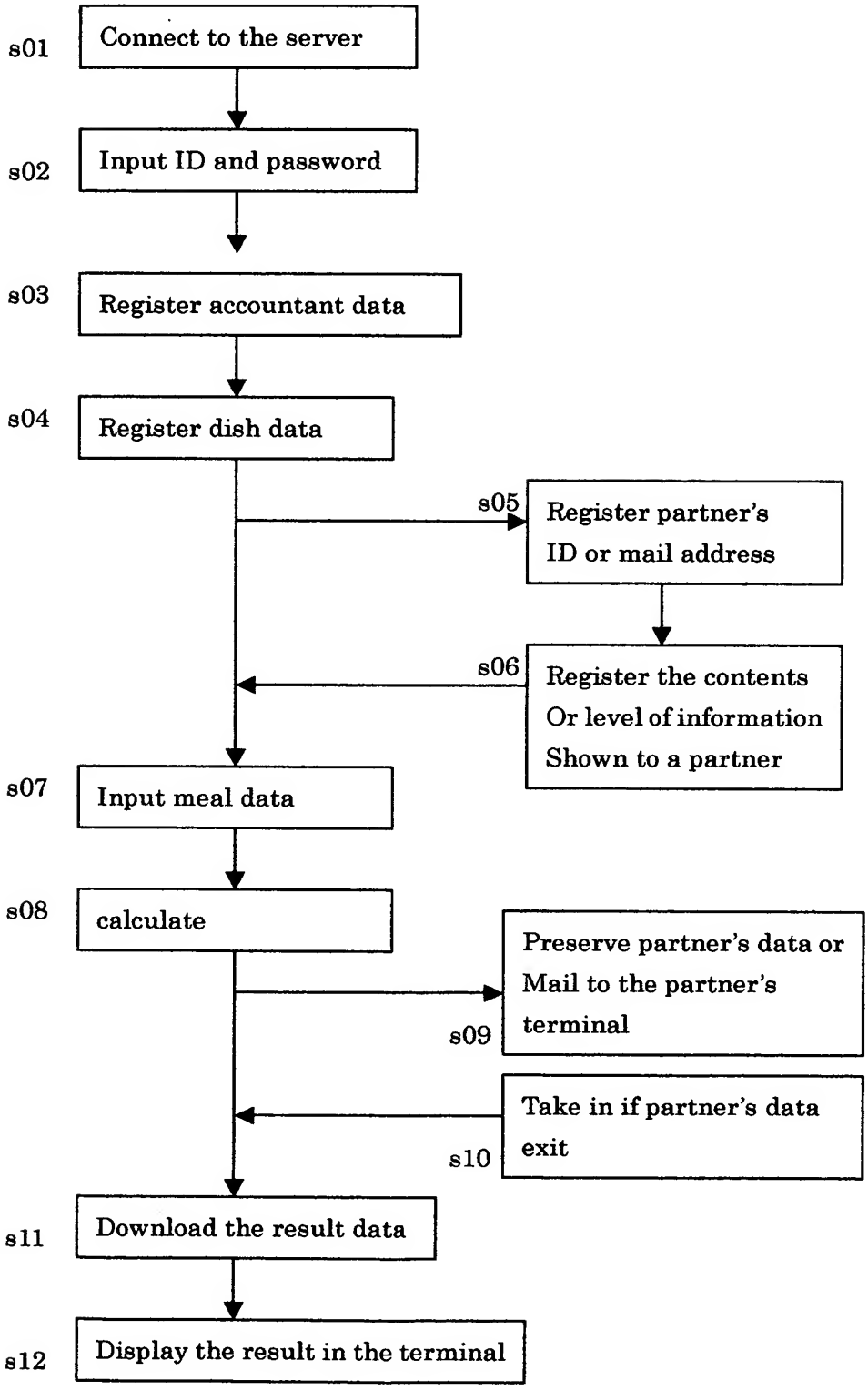
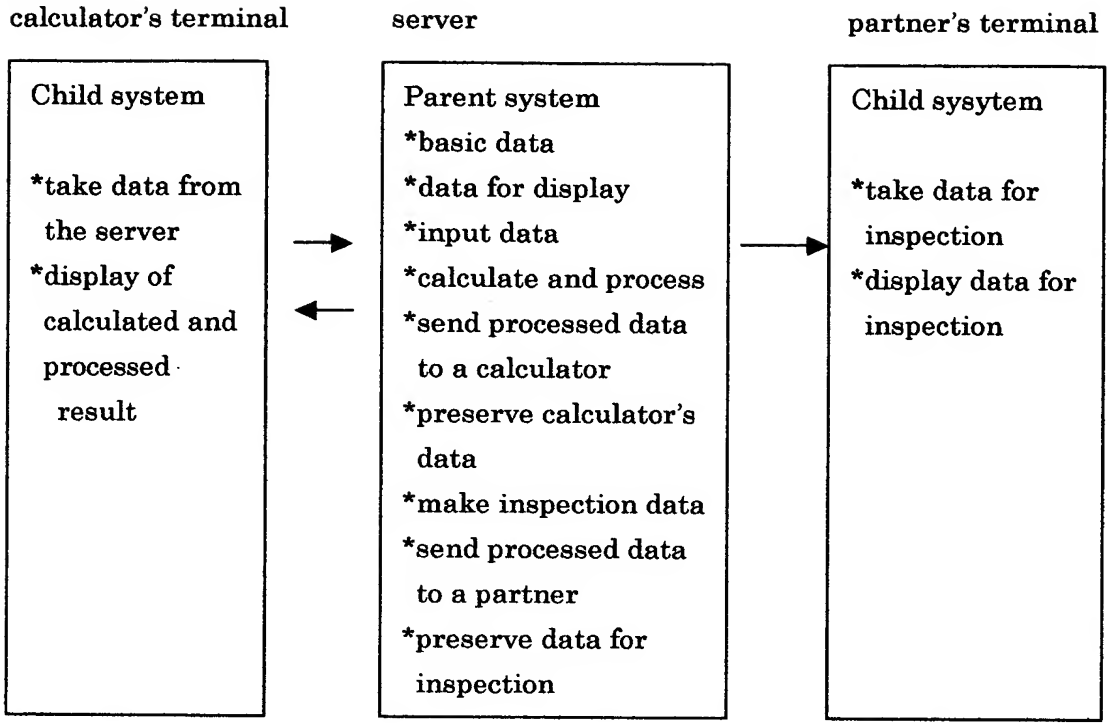

s01
Connect to the server
s02
Input ID and password
s03
Register accountant data
s04
Register dish data
s05
Register partner's ID or mail address
s06
Register the contents Or level of information Shown to a partner
s07
Input meal data
s08
calculate
Preserve partner's data or Mail to the partner's terminal
s09
Take in if partner's data exit
s10
s11
Download the result data
s12
Display the result in the terminal

Fig.38

(a)


calculator's terminal
server
partner's terminal
Child system
*take data from the server
*display of calculated and processed result
Parent system
*basic data
*data for display
*input data
*calculate and process
*send processed data to a calculator
*preserve calculator's data
*make inspection data
*send processed data to a partner
*preserve data for inspection
Child sysytem
*take data for inspection
*display data for inspection

(b)

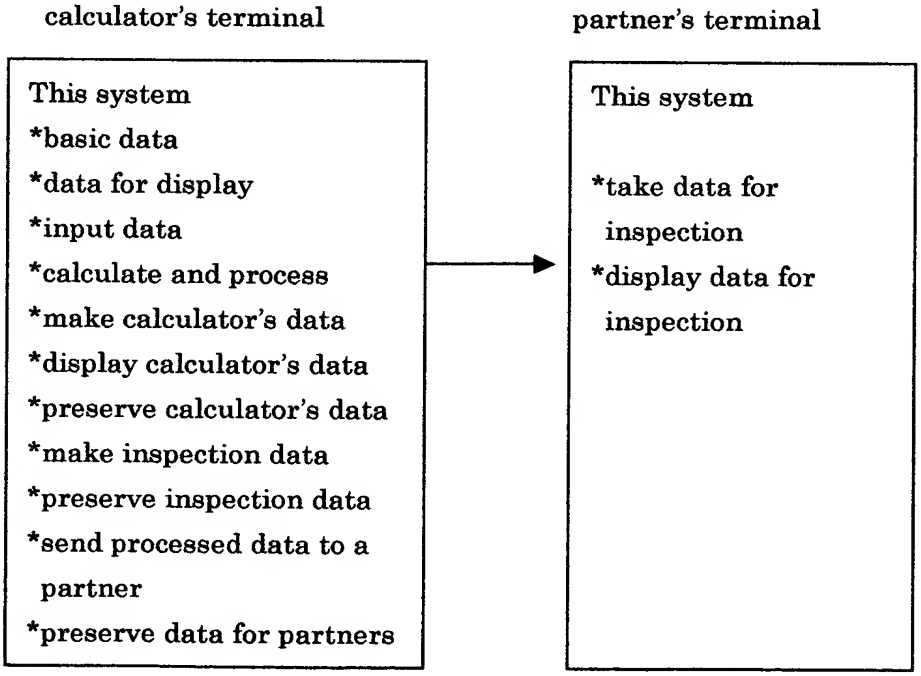

calculator's terminal
partner's terminal
This system
*basic data
*data for display
*input data
*calculate and process
*make calculator's data
*display calculator's data
*preserve calculator's data
*make inspection data
*preserve inspection data
*send processed data to a partner
*preserve data for partners
This system
*take data for inspection
*display data for inspection

Fig.39

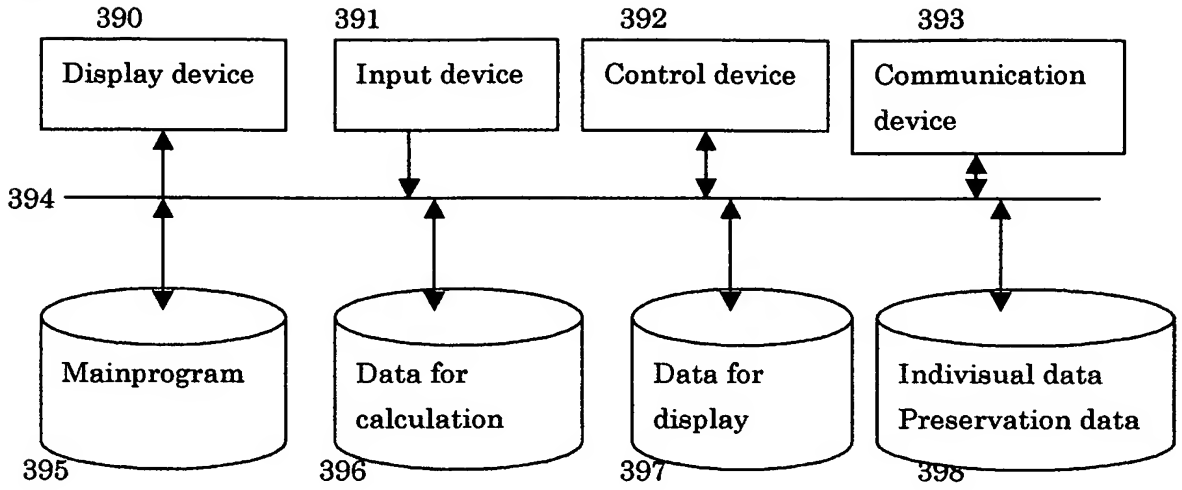

390
Display device
391
Input device
392
Control device
393
Communication device
394
Mainprogram
395
Data for calculation
396
Data for display
397
Indivisual data Preservation data
398

Fig.40

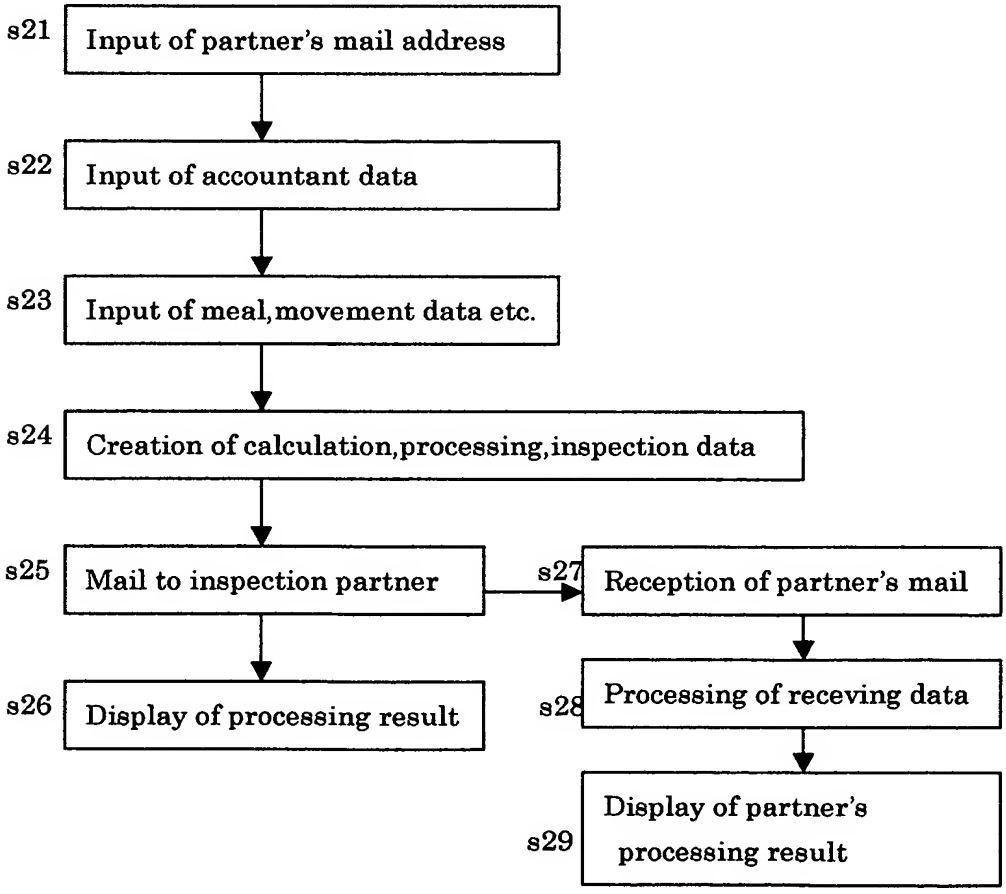

s21
Input of partner's mail address
s22
Input of accountant data
s23
Input of meal,movement data etc.
s24
Creation of calculation,processing,inspection data
s25
Mail to inspection partner
s26
Display of processing result
s27
Reception of partner's mail
s28
Processing of receving data
s29
Display of partner's processing result

Fig. 41

male	35 years old	170cm tall						
	energy kcal	protain g	calcium mg	iron mg	vitamin A IU	vitamin B1 mg	vitamin B2 mg	vitamin C mg
required quantity	2400～2600	65～80	600～700	10	2000	1.0～1.1	1.3～1.4	50
acqusition value	3000	50	500	11	1500	1.4	1	40
excess and deficiency	400	−15	−100	1	−500	0.3	−0.3	−10
text representation of influence in the body	overweight cardiopaty	fall of brain power decline of sex power	cavity fracture	fatigue prevention	depilation cold	fatigue prevention	arteriosclerosis	cancer anemia
image representation influence in the body	fat man weakened heart	broken heart	cavity bacillus broken bone	Mr.Hemoglobin or a smiling face	bald head	fine heart	bloodshot eye	Mr.Cancer cell
food name included	rice,bread sugar	meet,seafood,egg diary products, cereals	diary products small fish	liver edible brown algae	liver spinach	enriched rice eel	eel liver	broccoli citrus fruits
food image	fat bread fat candy	troubled potato troubled cow	troubled diary troubled pond	smiling hard clam	troubled carrot troubled eel	smiling pig smiling flounder	troubled mackerel troubled liver	troubled strawberry troubled orage
image1 to the partner	fat bread fat candy	troubled potato troubled cow	troubled diary troubled pond	smiling hard clam	troubled carrot troubled eel	smiling pig smiling flounder	troubled mackerel troubled liver	troubled strawberry troubled orage
image2 to the partner	fat monkey	spiritless monkey	sulky monkey	smiling monkey	melancholy monkey	strong monkey	weakened monkey	weakened monkey
mark	−1	−1	−1	1	−1	1	−1	−1

Fig.42

(a) mark of the present situation of a reckoner

	bad	normal	good
feeling	-3	0	3
work	-2	0	2

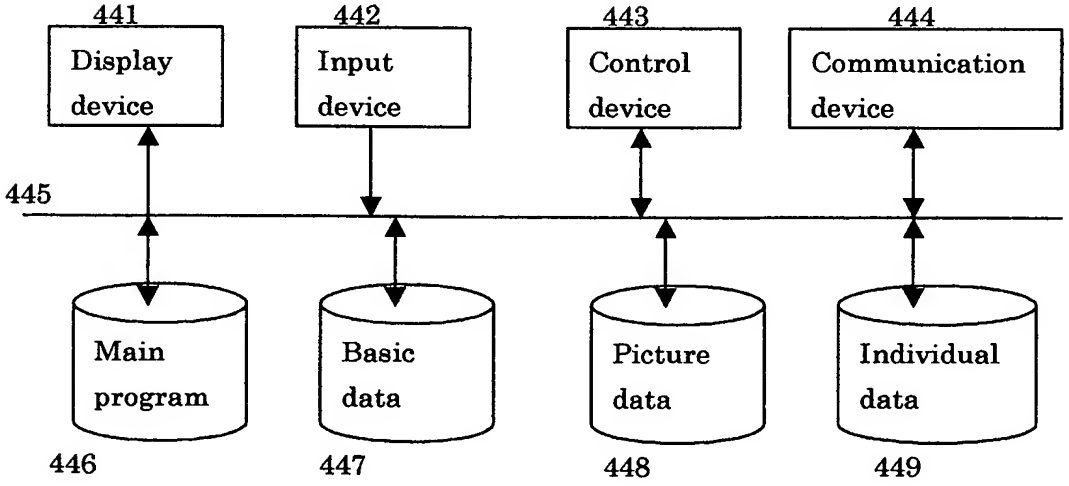
(b)change of the face of the monkey by mark

x< =-3	-2 <= x< = -1	0 <= x <=2	2 <= x
Tearful face	Displeasure face	Normal face	Smiling face

Fig.43

g f 132

g m 03

Fig.44

server